

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

TRAXIUM DUAL 9 FE 75W-90

SDS #: 090161

Date of previous revision : 2021/01/25

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : TRAXIUM DUAL 9 FE 75W-90

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Transmission fluids



1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants
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92029 Nanterre Cedex FRANCE
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

m.msds-lubs@totalenergies.com

TotalEnergies Marketing Romania SA

Str. Stejarilor, nr. 2, Cristian,

Brasov, 507055

Tel: 00 40 268 40 17 11 Fax: 00 40 268 40 17 26

ds-romania@totalenergies.com

Contact

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Romania

National Institute of Public Health, Office for International Sanitary Regulation and Toxicological Information: +40 21 318 36 06 (Mon-Fri between 08.00-15.00)

Moldavia

Serviciul Național Unic Pentru Apelurile de Urgență: 112

<u>Supplier</u>

Telephone number: Emergency phone: +44 1235 239670

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : No signal word.

Hazard statements: No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Supplemental label

elements

: Contains Polysulfides, di-tert-Bu and Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide,

and salted by amines, C12-14- tert-alkyl. May produce an allergic reaction.

Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %. This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

Other hazards which do not result in classification

: Hazard of slipping on spilled product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	≥50 - ≤75	Asp. Tox. 1, H304	-	[1] [2]
mineral oil	-	≤10	Asp. Tox. 1, H304	-	[1]
Polysulfides, di-tert-Bu	REACH #: 01-2119540515-43 EC: 273-103-3	<4.7	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	Skin Sens. 1B, H317: C ≥ 46%	[1]

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Reaction products of	CAS: 68937-96-2 REACH #:	≤2	Acute Tox. 4, H302	ATE [Oral] = 2000	[1]
4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	01-2119493620-38 EC: 931-384-6		Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	mg/kg Eye Irrit. 2, H319: C ≥ 50% Skin Sens. 1, H317: C ≥ 9.39%	1.1
magnesium metaborate	REACH #: 01-2120769073-53 EC: 237-235-5 CAS: 13703-82-7	≤1	Skin Sens. 1B, H317	Skin Sens. 1B, H317: C ≥ 15%	[1]
			See Section 16 for the full text of the H statements declared above.		

Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

ingestion : ₩ash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion

products

: carbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

5.3 Advice for firefighters

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
	HG 1218/2006 with subsequent modifications and additions (Romania, 3/2021). [] VLA: 5 mg/m³ 8 hours. Short term: 10 mg/m³ 15 minutes.

Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures

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for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be

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required.

Advisory OEL

Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
olysulfides, di-tert-Bu	DNEL	Long term Oral	0.167 mg/ kg bw/day	General	Systemic
	DNEL	Long term Dermal	1.66 mg/ kg bw/day	population General population	Systemic
	DNEL	Long term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	86.88 mg/	General population	Local
	DNEL	Long term Dermal	173.75 mg/	Workers	Local
	DNEL	Long term Inhalation	0.58 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	3.29 mg/m ³	Workers	Systemic
Reaction products of 4-methyl- 2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	DNEL	Long term Dermal	12.5 mg/kg	Workers	Systemic
O12-14- toreamy	DNEL	Long term Inhalation	4.28 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	6.25 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	1.09 mg/m³	General population	Systemic
	DNEL	Long term Oral	0.25 mg/ day	General population	Systemic
	DNEL	Long term Dermal	0.16 mg/ cm ²	Workers	Local
magnesium metaborate	DNEL	Long term Inhalation	5.49 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	7.78 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.82 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.278 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.28 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.278 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.28 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.82 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5.49 mg/m ³		Systemic
	DNEL	Long term Dermal	7.78 mg/ kg bw/day	Workers	Systemic

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Product/ingredient name	Compartment Detail	Name	Method Detail
Polysulfides, di-tert-Bu	Fresh water	0.00024 mg/l	-
	Marine water	0.000024 mg/l	-
	Fresh water sediment	0.94 mg/kg dwt	-
	Marine water sediment	0.094 mg/kg dwt	-
	Soil	1513 mg/kg	-
	Sewage Treatment Plant	4.51 mg/l	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl	Fresh water	2.4 μg/l	-
	Marine water	240 ng/l	-
	Fresh water sediment	12.9 µg/kg dwt	-
	Marine water sediment	1.29 µg/kg dwt	-
	Soil	1.17 µg/kg dwt	-
	Sewage Treatment Plant	24.33 mg/l	-
	Secondary Poisoning	10 mg/kg	-
magnesium metaborate	Fresh water	0.05 mg/l	-
	Marine water	0.05 mg/l	-
	Fresh water sediment	1.38 mg/kg dwt	-
	Marine water sediment	1.38 mg/kg dwt	-
	Soil	0.247 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hydrocarbon-proof gloves

nitrile rubber

Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical

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characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

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Body protection : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection : None under normal use conditions. If these are not sufficient to maintain exposure

below the OEL, suitable respiratory protection must be worn (Type A/P1).

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [limpid] Color Yellow.to Amber. Odor : Characteristic. Odor threshold : Not available.

: Not applicable. roduct is non-soluble (in water). pН

Melting point/freezing point

Initial boiling point and

boiling range

: rechnically not possible to measure : >316°C [ISO 3405]

Flash point : Open cup: 190°C [ASTM D 92]

: Not available. **Evaporation rate Flammability** : Not applicable. : Lower: 0.9% Lower and upper explosion limit

Upper: 7%

Vapor pressure

Not applicable. [50°C]

Vapor density : >2 [Air = 1]

: 0.866 [ISO 12185] Relative density

Density 0.866 g/cm3 [15°C] [ISO 12185]

Solubility(ies)

Media Result water Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/: Not applicable.

water

: ▶190°C [ASTM E 659] **Auto-ignition temperature**

Decomposition temperature : Not applicable.

Viscosity : Kinematic (40°C): 101 mm²/s [ASTM D 445]

Particle characteristics

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Median particle size : Not applicable.

9.2 Other information

Pour point : **5**1°C (-59.8°F)

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

10.5 Incompatible materials : Strong oxidizing agents

10.6 Hazardous decomposition products

: parbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Dec-1-ene, trimers, hydrogenated	LC50 Inhalation Vapor	Rat	1.17 mg/l	4 hours	OECD 403
, 3	LC50 Inhalation Vapor	Rat	0.9 mg/l	4 hours	OECD 403
	LC50 Inhalation Vapor	Rat	1.4 mg/l	4 hours	OECD 403
	LD50 Dermal	Rat	>3000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
Polysulfides, di-tert-Bu	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402
	LDLo Oral	Rat - Male, Female	2000 mg/kg	-	OECD 401
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
-	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	2201 mg/kg	-	- OFCD 404
magnasium matabarata	LD50 Oral LD50 Dermal	Rat Rat	2000 mg/kg	-	OECD 401 OECD 402
magnesium metaborate	LD30 Deliliai	nal	>2000 mg/kg	-	0200 402

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Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	100000	N/A	N/A	N/A	N/A
	2000	2201	N/A	20.1	5.1

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Polysulfides, di-tert-Bu	Eyes - Cornea opacity	Rabbit	0	-	OECD 405
	Skin - Erythema/Eschar	Rabbit	2	-	OECD 404

Conclusion/Summary

Skin
 Eased on available data, the classification criteria are not met.
 Eyes
 Eased on available data, the classification criteria are not met.
 Respiratory
 Eased on available data, the classification criteria are not met.

Sensitization

Product/substance	Route of exposure	Species	Result
Polysulfides, di-tert-Bu	skin	Guinea pig	Sensitizing

Conclusion/Summary

Skin: Based on available data, the classification criteria are not met. Contains sensitizer.

May produce an allergic reaction.

Respiratory: Sased on available data, the classification criteria are not met.

Mutagenicity

Product/substance	Test	Experiment	Result
Polysulfides, di-tert-Bu	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Conclusion/Summary: Based on available data, the classification criteria are not met.

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Specific target organ toxicity (repeated exposure)

Conclusion/Summary: Based on available data, the classification criteria are not met.

Aspiration hazard

Product/substance	Result
Dec-1-ene, trimers, hydrogenated mineral oil	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Conclusion/Summary: Sased on available data, the classification criteria are not met.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
Polysulfides, di-tert-Bu	Sub-acute NOAEL Oral	Rat - Male, Female	100 mg/kg	-

Conclusion/Summary: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Dec-1-ene, trimers, hydrogenated	Acute EC50 >1000 mg/l	Algae - Scenedesmus capricornutum	72 hours	OECD 201
, ,	Acute EC50 >5002 ppm	Daphnia - Americamysis bahia	96 hours	OECD 202
	Acute EC50 >150 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute NOEL 1000 mg/l	Algae - Scenedesmus capricornutum	72 hours	OECD 201
	Acute NOEL 1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	-
	Chronic NOEL 125 mg/l	Daphnia - Daphnia magna	21 days	OECD 211
Polysulfides, di-tert-Bu	Acute EC50 >100 mg/l	Algae	72 hours	-
	Acute EC50 63 mg/l	Daphnia - Daphnia magna	48 hours	-
Reaction products of	Acute EC50 6.4 mg/l	Algae -	96 hours	OECD 201
4-methyl-2-pentanol and		Pseudokirchneriella		
diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines,		subcapitata		
C12-14- tert-alkyl				
,	Acute EL50 91.4 mg/l	Crustaceans - Daphina Magna	48 hours	OECD 202
	Acute LL50 24 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 1.7 mg/l	Algae - Pseudokirchneriella	96 hours	OECD 201
	Chronic NOEL 0.12 mg/l	subcapitata Crustaceans - Daphina Magna	21 days	OECD 211
magnesium metaborate	Acute EC50 1000 mg/l	Micro-organism	3 hours	-

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	STDMETH, ASTM and USEPA	3 % - Not readily - 28 days	-	Activated sludge

Conclusion/Summary: Not available.

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Product/substance	Aquatic half-life	Photolysis	Biodegradability
Polysulfides, di-tert-Bu	-	-	Not readily
Reaction products of	-	-	Not readily
4-methyl-2-pentanol and			
diphosphorus pentasulfide,			
propoxylated, esterified with			
diphosphorus pentaoxide,			
and salted by amines,			
C12-14- tert-alkyl			

12.3 Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
	>6.5	-	high
Polysulfides, di-tert-Bu	6	-	high
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	0.3 to 7.1	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product generally shows low soil

mobility The product is insoluble and floats on water Loss by evaporation is limited

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

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: Yes. Hazardous waste

> According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only

suggestions: 13 02 06*

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

This material and its container must be disposed of in a safe way. Empty containers Special precautions

or liners may retain some product residues. Avoid dispersal of spilled material and

runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances.

Other EU regulations

mixtures and articles

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

National regulatory information

GD 398/2010 on establishing measures for application of Regulation (EC) no. 1.272 / 2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC). 1.907 / 2006GD 477/2009 on establishing penalties for infringements of the provisions of Regulation (EC) no. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Agency for Chemicals, amending Directive 1999/45 / EC and repealing Regulation (EEC) No . 793/93 and Regulation (EC) no. 1,488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC of the CommissionGD 1218/2006 laying down minimum requirements for safety and health at work for the protection of workers from risks related to chemical agents

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

LU - Luxembourg prohibited chemicals in the workplace

Not listed.

Inventory list

Australia inventory (AllC) : All components are listed or exempted.

Canada inventory (DSL/NDSL) : Not determined.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (EC) : MI components are listed or exempted.

Japan inventory : Japan inventory (CSCL): All components are listed or

exempted.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) : MI components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

Korea inventory (KECI) : MI components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted.

Turkey inventory : Not determined.

United States inventory (TSCA 8b) : All components are listed or exempted.

Vietnam inventory : Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical Safety Assessment

: Rísk management measures and safety conditions of use are included in the relevant sections of the SDS

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

PNEC = Predicted No Effect Concentration

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

UVCB Substance of unknown or Variable composition, Complex reaction products

or Biological material

NOEC No Observed Effect Concentration

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QSAR = Quantitative Structure-Activity Relationship

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

⊮ 302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Chronic 2 Aquatic Chronic 3	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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